EP 0 912 909 A1

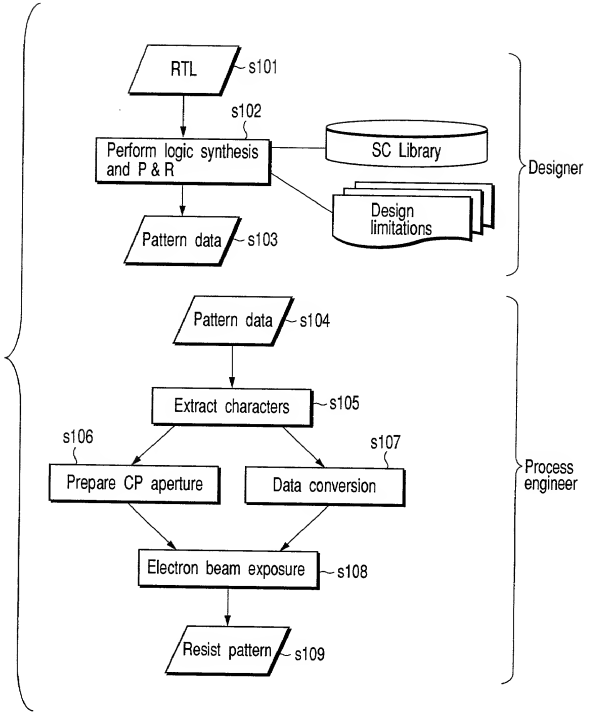

FIG. 1 PRIOR ART

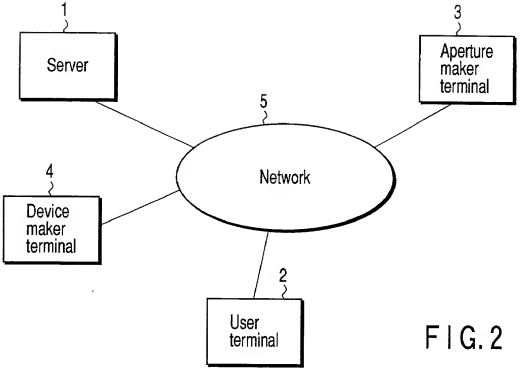
1
Server
3
Aperture maker terminal
5
Network
4
Device maker terminal
2
User terminal

FIG. 2

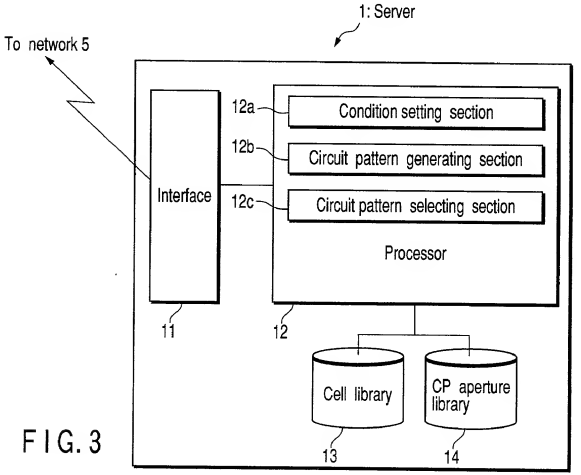
1: Server
To network 5
Interface
12a
Condition setting section
12b
Circuit pattern generating section
12c
Circuit pattern selecting section
Processor
11
12
Cell library
CP aperture library
13
14

FIG. 3

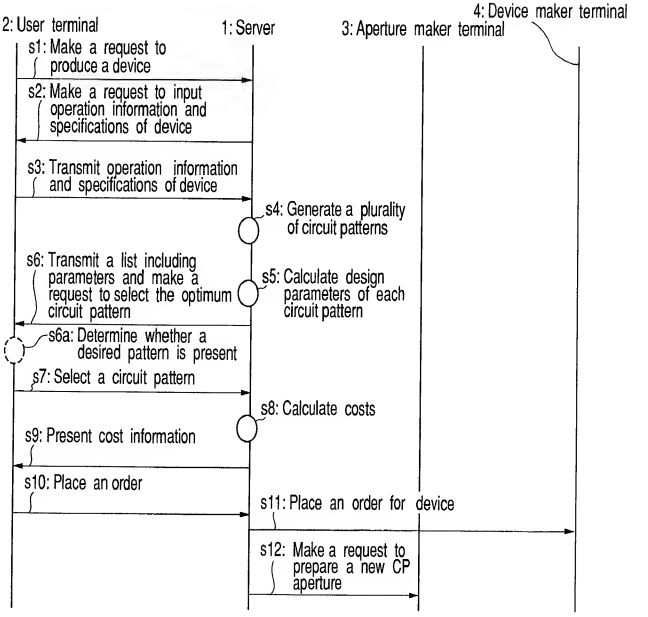
2: User terminal
1: Server
3: Aperture maker terminal
4: Device maker terminal
s1: Make a request to produce a device
s2: Make a request to input operation information and specifications of device
s3: Transmit operation information and specifications of device
s4: Generate a plurality of circuit patterns
s5: Calculate design parameters of each circuit pattern
s6: Transmit a list including parameters and make a request to select the optimum circuit pattern
s6a: Determine whether a desired pattern is present
s7: Select a circuit pattern
s8: Calculate costs
s9: Present cost information
s10: Place an order
s11: Place an order for device
s12: Make a request to prepare a new CP aperture

FIG. 4

EP 0 921 567 A2

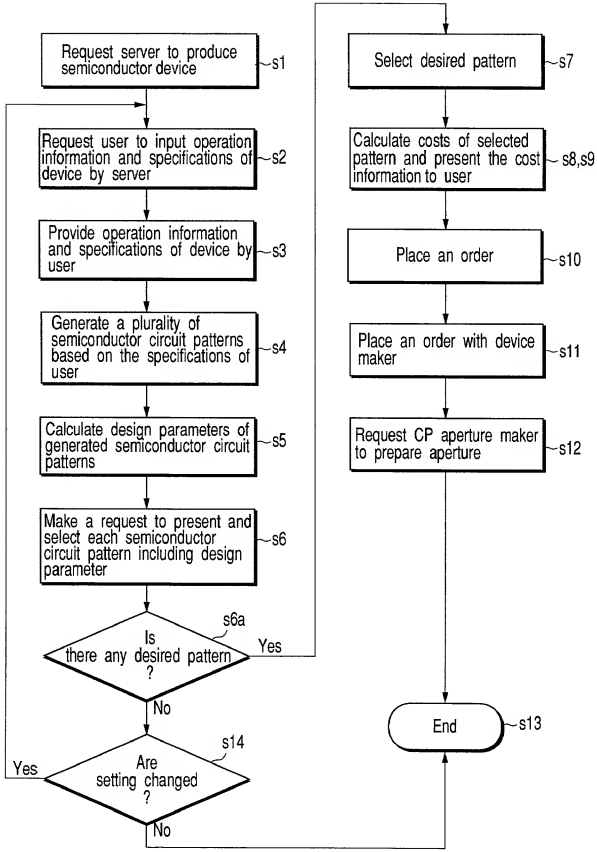

FIG. 5

US 2007/0129898 A1

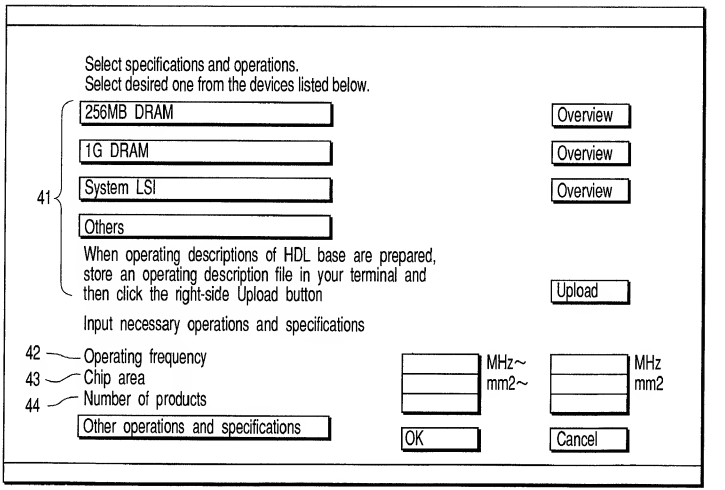

FIG. 6

EP0712058A1

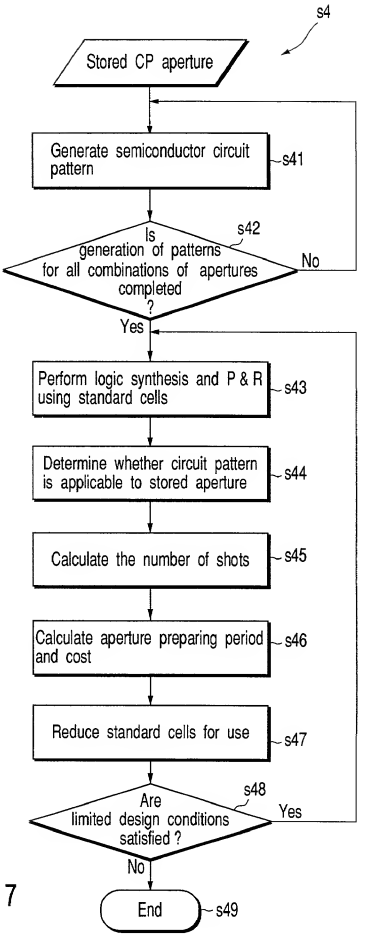

FIG. 7

TOSZ40"80Z2T660

Click left-side check box for desired device and then OK button. If there is no desired one, click Retry or Cancel button. If you click Retry, you can start setting operations and specifications.

	Pattern number	Frequency	Area	Power consumption	Number of masks	Cost	Period
☐	1	632MHz	3.2X6.8mm2	15mW	3	¥1,203,300	65 days
☐	2						
☑	3						
☐	4						
☐	5						
☐	6						
☐	7						
☐	8						
☐	9						
☐	10						

OK | Retry | Cancel

FIG. 8

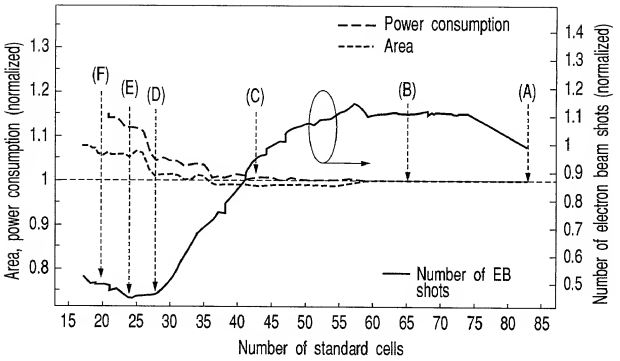
Power consumption
Area
Number of EB shots
(A)
(B)
(C)
(D)
(E)
(F)
Area, power consumption (normalized)
Number of electron beam shots (normalized)
Number of standard cells
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
15 20 25 30 35 40 45 50 55 60 65 70 75 80 85

FIG. 9

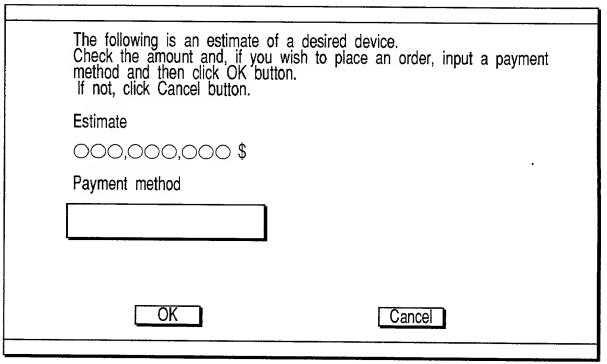
The following is an estimate of a desired device.
Check the amount and, if you wish to place an order, input a payment method and then click OK button.
If not, click Cancel button.
Estimate
○○○,○○○,○○○ $
Payment method
OK
Cancel

FIG. 10

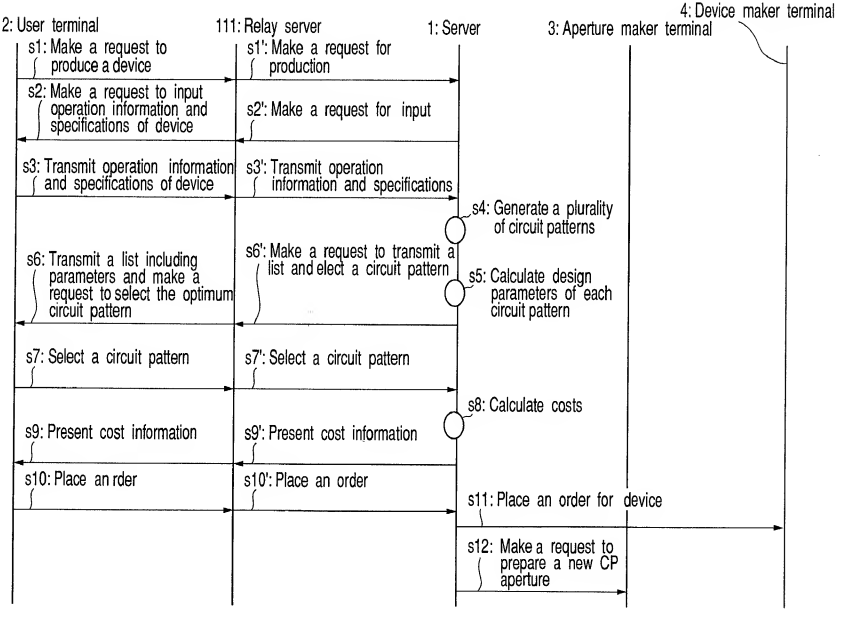
2: User terminal
111: Relay server
1: Server
3: Aperture maker terminal
4: Device maker terminal
s1: Make a request to produce a device
s1': Make a request for production
s2: Make a request to input operation information and specifications of device
s2': Make a request for input
s3: Transmit operation information and specifications of device
s3': Transmit operation information and specifications
s4: Generate a plurality of circuit patterns
s6: Transmit a list including parameters and make a request to select the optimum circuit pattern
s6': Make a request to transmit a list and elect a circuit pattern
s5: Calculate design parameters of each circuit pattern
s7: Select a circuit pattern
s7': Select a circuit pattern
s8: Calculate costs
s9: Present cost information
s9': Present cost information
s10: Place an rder
s10': Place an order
s11: Place an order for device
s12: Make a request to prepare a new CP aperture

FIG. 11